

## MEDICAL ASSECTION FOR THE CHAIRMAN OF CHAIC

FEBRUT (C): Report of GMAIC TIMER Town

## HOLLS:

To make preliminary assessment of new cover of TTMCR as it has a bearing on NEE 11-5-59. Attention was focused on factors affecting DUMM configuration, guidance, propulsion, deployment, and priority.

## COMPLEMENTS:

- 1. Then has conducted all launchings to date with a single launch facility.
- 2. There is no new evidence available on ICBM configuration, guidance, propulsion or deployment.
- 3. There is no evidence to indicate an operational-type launch facility (prototype) the existing launch pad could, of course be used for emergency operational purposes.
- 4. Construction is now underway on a second launch facility, which, in its early stage of construction, bears considerable resemblance to Launch Area "A", the facility in use. The major axis of the new launch area is on an azimuth of approximately 310 degrees true.
- 5. The present pace of construction indicates that the new launch with is not being built on a "crash" basis.
- 6. There is no evidence of true underground or "silo-type" launch site(s) in the TROES.
- 7. There is no evidence on present cover to indicate use of new / or unusual propellants.
  - 8. The new construction, including the new launch area, is part of an orderly planned expansion of the original missile test range familities.

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9. The mode of operation for erecting, checkout, lervicing and launching of the missiles from sunch area "A" cannot be determined from information available to date.

#### DISCUSSION:

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29 July on material available and on preliminary photo interpretation findings. Information contained in HTA ODES was supplemented by briefingo and a ceries of questions passed to the FI Team by the TIMIR Team (questions and an wers are in TAB).

The entire TIMR cover a presented to the Team was considered with the view of identifying leanch facilities. Only the previously known facility in wrea "A" is identifiable as such. wrea "B", previou ly considered to be a possible leanth area under construction, provides no evidence at this time of being such; it has been referred to the GMAIC O erational Site Team for their consideration.

The new photography does not confirm the configuration of the launch facility in Area "A" proviously reported HTA JR-4/58). The servicing structure looks somewhat different although its exact configuration still cannot be determined. The launch pad appears to be supported by pillars rather than solid walls as previously believed. This would lead to the possibility that the area underneath the launch pad is open although it is just as possible that different "levels" exist below the gad - the photography does not permit determination. (It should be noted that it was strongly recommended by all agencies that the flight path he east of the launch area "A" so that the details of the launch pad could be ascertained. These recommendations apparently were not followed). The method for removing the missile from its transporter (probably real), execting the missile, the position and location of the missile during checkout and fueling, and the position of the missile and servicing structure at the time of launch cannot be determined.

A new launch area is now under construction at the terminus of a 15 n. m. long RR spur. This new launch facility, which is estimated to be about 30 per cent complete, is located to the EE of Launch Area "A" and, with minor exceptions, resembles Launch Area "A". The present cover (6 a.m. local time) shows no evidence of multiple-shift construction efforts and, in fact, shows a virtual absence of construction activity. Estimated completion date, assuming some acceleration over the present pace, could be late Spring or early Summer of 1960. The major axis of this new launch area is on an azimuth of approximately 310 degrees true as opposed to the 90 degree orientation of launch area "A". No work is as yet evident on new instrumentation or guidance facilities to indicate direction(s) of launch from the new area, but it appears that: 1) polar shots will be possible; 2) launches from Area "A" and the new launch area will not mutually interfere.

Another area under construction, a "Y" RR spur off the new 15 n. n. long spur RR, appears to be supportable in nature rather than, at present, having any launching associated function. The early stage of construction precludes assessment of its ultimate function.

Across the main spur line from this "Y" shaped construction area is an area presently considered to be a borrow pit area probably involved in general construction activity (this area has been put forth in SAC MBPIR T59-1 as a possible Titan-type launch site under construction).

Other development completed or initiated at WIMIR since the previous cover includes: 1) Completion and expansion of administrative and
support facilities in the Support Area near the town of Tyura Tum;
2) expansion of the instrumentation control facilities and the
communications center "A" in the main rangehead area; 3) expansion
of the water treatment facilities; 4) expansion of the main power
plant area; 5) and numerous other additions throughout the complex.

The entire picture appears to represent a well planted long range program of empassion and development as required.

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	It is noted that none of the new construction activities at	
	Tyura Tam have been noted in COMINT. This adds to the feeling that the	
	construction is not being done on a "Crash" basis. This also adds to	
	suspicions of the nature of the construction at Sary-Shagan (461CH-7335E).	
	COMMENTS AND RECOMMENDATIONS	
	Comments:	
	Some of the questions placed with the TT PI Team have not yet been	
	answered. Among these, major questions are number 2, 3, 5, 23, and 25.	
	One of the reasons for this is the fact that original negatives were	
	not available to the TT FI Team until 5 August.	
	Recommendations:	
	1. It is strongly recommended that future coverage of the TMTR	
	include cover in the morning hours and that it include a flight path	
	to the east of launch area "A" in order to obtain coverage of the front	:
	of the launch facility which might answer several questions on configu-	
	ration .	
	It is also recommended that Sary-Shagan have high priority on any	
	future list for cover.	
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Enclosure: Tab (44 questions and answers)

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TAB		
Q. l.	Determine the size and shape of the "hole" in the launching	
	ped in Area A.	
A.	Further emmination of Launch Area "A" reveals that the dark	
	area positioned near the center of the concrete launch plat-	
	form is apparently circular, regularly shaped, of uniform	
	tone, and measures Although	25X1
	the nature of this dark area is unidentified, its uniformity	
	and regularity indicate that it is not a missile blast or	
	exhaust scar as was previously suggested in HTA/JR-4/56.	
Yo Zo	Determine whether or not there is a sub-level(s) on which the	
	vehicle could rest if lowered into "hole". If present,	
	determine position as accurately as possible. Check new launch area for any data on this point.	
A	Not assured as of report date.	i
-	managar as on reloce fires.	
Q. 3.	Check procise measurement of tower.	•
A.	No formal answer as of report date.	
Q. 4.	Check all rail equipment for any unusual carriage and for	
	erecting goar.	
<b>A.</b>	There is one 75/80 foot rail our present at Area "A" which has	
	portion which is raised above the bed of the car.	25X1
	(There is conjecture that this may be a crane car, although no	
	boom is definite)	
: 		
ys 50	Check all areas of TBTR for any possible missile, missile	
<b>A</b>	stage or missile tankage.	
A.	Not convered in full as of report date.	

Determine similarities and/or differences between present lameh pad and new pad.

# Launch Area "A"

## "Hew Launch Area"

Leamphing platform positioned directly opposite control banker Apparently to be the same

Control bunker positioned to the Apparently to be the same left of the launching platform with reference to the general orientation of the rail spur.

Center of the control bunker positioned 660 feet from center of lamohing platform.

Center of apparent control bunker positioned 450 feet from center of launching platform.

Launching platform seasures 160 X 135 feet.

Apparently launch platform will be approximately 100 X 100 fest.

The launching platfora does not appear to have solid walls but ears to be partially open ing the platform.

The construction of the launching platform cannot be positively determined as to whether it will with two 30 foot pillars support- have solid wells or be partially open with supporting pillars.

The surface of the launching platform is 135 feet above the base of the pit.

The present level of the launching platform above the base of the pit is 40 feet. The height from the base of the pit to the general ground level is 100 fest.

The launching platforms in both creas are positioned in relatively the same location as to their respective pits.

- Q. 7. Check buildings (run-through) for possibilities of covered launch site (BOMARC concept).
- Scale and quality of photography precludes determination that any of the run-through buildings at the II complex have a "BOMBC" potential or are capable of displacement.
- Q. 8. Make comparative search for any tracking reders.
- No formal answer as of report date.
- Q. 9. Search TARMANZ area for reder facilities (most likely located on or very near great circle flight path - TI/KLYUCHI impact area - extended rearwards).
- A search of the TASHAUZ area failed to reveal any redar facilities or other types of missile related instrumentation. The airfield. which appears on far oblique photography, was not active. Scale factors and lack of stereo on the far oblique photos may have some bearing on the lattice or money, any radar.

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- Q. 10. Provide details on possible colinating towers on launch yet in Area A.
- A. The new photo coverage does not permit a more detailed analysis than that given in the project.
- Q. 11. Check old that area and possible now that even for any festures distinguishing type of feel willised.
- A. Where appears to be no direct physical consection between the "old" and "see" areas. Roth have value input and one wall and road served. Due to lack of complete photo coverage of the old propollant even the entire decility essent to emplying.

  In the new area the present appearance to that of hush handling rather than manufacturing.
- Q. 12. Check new possible fuel error for indications of special handling equipment or facilities possible connecting proparation for using zore excite, high-energy fuels.
- A. The only possible fuel handling indication at the new own is the calabance of a rail drive into building (3 rail cost at ontrace) similar in othe and appearance to a rail drive into building located at laurah orde "A". Another building under construction (130 % to fact) is located adjacent to the rail oper. This above mentioned building, a road, and a direct for a water line are the only indications of construction in this area.
- G. 13. What are the possibilities that the sew launch area will possess covered flore exhaunt, possibly for "washiown" such as used when floretre is added to, or used so, the fuel.
- A. It does not appear that the "new langth area" will have a covered flame exhaust. The present state of construction and the presence of a cloud and abudar problem; a projected view of the completed structure. However, it does appear that it will be similar to launch area "A". The launch structure of launch area "A" does not have a covered flow exhaust.
- the Gheck old TESTA error, particularly error B, for engine took facility.

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A. Area "B" is now serviced by a water line and also a new settlement basin has been built at the terminus of the old drainage ditch
leading to the SE from the large rail served building. This
installation appears to serve the function of cold flow or component check-out as opposed to bot testing.

Although the clearatory building does not appear to contain any extensive ventileties, anisant, and heat discipction measures, or observation and protective measures associated with covered engine test calls, no other same within the ET complex appears to be more closely related to engine test familities.

- Q. 15. Accurately plot roll curvatures leading up to sew Launch area, old launch area and sail spar(a) leading off may real line.
- As Answered by Line drawings retained at MIA.
- 9. 16. Check all rail case for persible rail nounted guildess equipment = raders.
- A. Ro rail wounted guidance equipment is noted.
- Q. 17. Assess Area B to be sure it is not used as a launch area.
- Area "B" shows so indications of leaving been used as a lammah
  fracility up to the present time. There are no lamen facilities
  appeared and there are no blest scars visible in the area. The
  rail line that was thought to extend to the terminal area of the
  fenced destallation actually terminates 1,200 feet south of the
  drive-through building. So function can be determined for the
  revetted pad area cutside area "B" and there are/indications of
  activity. The completed "Water Breatzent Pacility" entaide

  Area "B" appears to have been built exclusively for Area "B".

  There is a direct water line from the large drive-through
  building to the treatment facility.
- Q. 18. Details of the new rail apar even on the new rail line should be plotted to determine, if possible, what the completed area will look 12ks.
- A. It cannot be determined from the present activity what the

future function of this area will be. Actual new construction
to limited to: 1) A third oper line which would be located
between the two completed oper lines possibly may be under
construction. 2) Three diveloss have been dug out from the water
line which runs adjacent to the area. These three ditches actually
break into the vetor line, out seroes the road and so under the
rail line. A possible panying nonen is located none each
ditch. 3) There is a large amount of track activity throughout
the general area, however, actual construction is limited
(overlay retained at HM).

- Q. 19. Check carefully for any possible ICM launching pad other than Area A. Is there only one sampleted launch had?
- As the completed launch god, other than the launch structure in Area "A", has been found in the IT rangehead. At this time, the "new launch area" located at the terminum of the new rail spur is the only area that indicates an additional ICTS launch potential.
- Q. 20. Determine estimated completion date for now launch eres.
- As a FI "guesationate" only, the new launch area could be completed by late spring/carly survey of 1960.
- Q. 21. Check to be care there is no pisatile in or or the launcher in Area A.
- Analysis of chadous caused by objects on the launch structure indicate that no missile is bested on or above the surface of the launch platiform. Quality of current working meterials makes it impossible to determine if a missile is positioned in the "hole" and beneath the surface of the launch platform.
- C. 22. Determine arisatin of leunch direction plotted 40 degraes from north and projected from estimated leunch platform.
- As This question, as well as graphion 15, was answered by line drawings, retained at 1886.

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- Q. 23. Leanch Area "A" determines relative positions of observation

  (Comment) ports and bunkers around pit and the surface of the

  launching structure. What is vertical angular coverage capability

  from the observation ports? Where does direct lines of sight from

  ports and bunkers (and structures on top of bunkers) strike

  launching structure.
- A. Not answered as of report date.
- Q. 24. Re the servicing "struts" on launch rad "A". Does this structure move every (e.g., on rails), during launch? Is there may opening at center juncture of struts size? Can this size be equated to the dissector of the servicing towar? Can entire dark circular area, with struts, be elevated and lowered into launch rads?
- A. Hot answered as of report date.
- Q. 25. Leunch Fad "A". Determine dimensions of new "conduit" which roughly parallels previous one leading from control bunker to launch pad. Can construction materials be determined? What is course of new conduit its gradient, point of origin and final end?
- A. Bot ensured as of report date.
- Q. 26. Launch "A" area. Could the new "structure" appearing adjacent to ped be an elevator? Describe in full.
- A. The new structure does not appear to be an elevator. There is

  no evidence of any excavation such as apoil or disturbance of
  the wall of the pit. The structure appears to be a concrete
  bunker, possibly elevated

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  the level of the leunch platform. It measure:

Q. 27. Have any structures showing above ground on previous cover been removed which could possibly have been surface cover for underground launch site(s)? (Removal might leave occurs which communicated original construction scars). Emailing Area "A" and Area "B" from this viewpoint.

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- A. Reference areas "A" and "B". There are no indications that
  any structures apparent on previous cover and since removed
  could have been used for cover of underground launch size(s).
- Q. 28. Area "B". Determine if the physical security of this area,
  which appears greater than that at any other part of the TI
  Complex, resembles that at any known nuclear (testing, warhand
  storage arming and fuzing areas) facilities.
- A. A comparison of the physical appearances of several known nuclear warhead storage areas within the USSR was made to the area in question. We section within area "B" was found which resembled, even in ministure, any of these installations.
- Q. 29. In Area "A" and "new alunch area" check the "spells heaps",
  "hillocks" or whetever they are for any possible indications
  of underground missile storage and/or launch facilities completed
  or under construction (tunnel effect, out the sides of "hills,
  out of tops of "hills"). Similarly, check for any underground
  access to these "hills" from other points in the two areas reads, railroad, personnel.
- A. The "hillocks" at the new launch area are now determined to be speil from the excavations since they do not appear on the earlier photographic coverage.

  The speil banks in both launch areas have been examined and no

The spoil banks in both launch areas have been examined and me indications of underground activity was noted. Consequently, there is no evidence of entrances into these spoil banks.

- Q. 30. Areas A, B, "Propellent speas", control center(s).

  Any evidence of air conditioning?
- A. Home of the areas of interest requested revealed evidence of a sophisticated type of air conditioning, i.e., forced draft cooling towers, cascade type water aeratica towers normally associated with refrigeration, or air conditioning. However, many of the buildings do have vents on the roof.

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- Q. 31. Is there any possibility that silo-type launch facilities
  exist in the "peur-shaped pit" in Area "A"? Either in the center
  of the pit or near the edges? Any signs of entrances to pit from
  terrace levels? Any signs of track activity along terraces, to
  indicate missile servicing is accomplished from terraces? Any
  track, etc. activity from launch pad or other facilities to the
  terrace levels?
- A. There are no indications that silo-type launch facilities exist in the "pear-shaped pit", either in the center or near the edges.

  There are no signs of any entrances to the pit from terrace levels, nor is there track activity along the terraces to indicate missile servicing from pit. No track activity exists from the launch pad or other facilities to the terrace levels.
- Q. 32. In regard to tempo of work displayed in numbers and types of construction equipment, work in progress, time of day, road and RR support, workers' housing, etc., can a statement be made regarding apparent urgency attached to the new construction in "new launch area"?
- A. Answered orally to effect that no evidence of "crash" program.
- Q. 33. What evidence, if any, is there that an underground launch site is being constructed in "new launch erea" or in the small "siding" about 5 n.m. out on the new rail spur? Is there any evidence of construction of underground launch sites anywhere at TT?
- A. Answered crally in the negative.
- Q. 34. Is there any evidence in the "new launch area" that this area is nore for "operational use" than the old launch area "A"?
- A. There is no evidence so far to indicate that the new launch area will be more closely associated to "operational use" than launch area "A". From an over-all standpoint, the inclusion of a check-out building within the fenced area is probably the most outstanding feature excluding of course, the new rail-served area

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10 miles SW for which no function is yet determined.

- Q. 35. In Area "A" and Area "B", have any significant changes

  (additions, alterations, deletions) occurred since previous

  cover? What are they?
- A. Overlays depicting changes in Areas "A" and "B" are attached.

  Changes that represent additions are shown in blue, and changes
  that represent deletions are shown in green. In Area "B" the
  red lines represent no change.

(The base report for overlays is JR-4-58)
(The overlays referred to are retained at HEA)

- Q. 36. Regarding the "cruciform-figured" installation in the rangehead area, - compare present cover with previous for anything new that can be learned re functions, frequencies, etc.
- A. The "cruciform-figured" installation is unchanged from the original coverage. This installation is not in stores on the new mission and it is believed that nothing new can be learned from the new photography regarding this interferementar.
- Q. 37. Search main RR line as fer as present cover parmits, including
  line to E and S towards DZHUSALY. If any possible missile-carrying
  care and/or missiles are present, analyze in detail. Anything
  else of significance visible along main line?
- A. There are two 75/80 foot tapered cars present at Launch Area "A".

  These cars have a 35 foot slit or opening in the roof. Another car which is 75/80 foot long is either partially loaded or has a superstructure at one end which is

  (This car was mentioned in Request #4). Four other 65/70 foot cars were parked on a curve between the Launch Support Area and area "B". These cars have no unusual configuration. Another 75/80 foot car is parked beside the drive-through building in the Launch Support Area. The quality of the photography precludes determining the configuration of this car.

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- Q. 38. What development of the sirrield at Tyura Tem, besides asphalting of runway, has been conducted? Any evidences of ground handling equipment, or new storage facilities or access road, or improvements to direct road access from airstrip to launch area "A"?
- A. The following changes have been noted concerning the mirfield at Tyura Tam: 1) Addition of a hard surfaced parking apron and taxiway. 2) Helicopter pads adjacent to parking apron.
  - 3) Bight new buildings located approximately 300 and 800 feet south of the parking apron. Two of the larger buildings are under construction, 175 X 45 and 95 X 40 feet. A motor pool is located nearby. 4) A gravel road leading from the parking apron directly to the housing and administrative area.
  - 5) A hard surfaced all-weather road leading indirectly to commo area "B" and the housing and administrative area. 6) A ditch leading from the near vicinity of commo area "B" toward the parking apron. However, it is not as yet completed to that point. This ditch may be a cable from commo area "B" or a tap from a water line near the commo area, or both. A small but tall 10 foot square structure or building is almost astride this ditch. This building is located in the group under construction near the parking apron. No direct access was noted between the airfield and launch area "A".
- Q. 39. Please examine the "tank" in "new launch area" in relation to

  dark circular area in Launch Area "A", on launch pad.

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  Could they be similar in function? If so, does this "fit"

  at all with rest of installation under construction or does it

  ruin the possible layout? Would this make the new pit dimensions

  similar to that in Area "A"?
- A. Answered verbally by Fitzgerald, 3 Aug. 59. Opinion was negative.
- Q. MO. Re Propellant area: What is nature of new construction West of RB line, approximately opposite Water Storage Area on

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	large hillock?	
<b>A</b> .	New construction consists of: 1) Five buildings including one	
	under construction, 2) a road serving the buildings, 3) a rail	
	spur serving the area, 4) a water line under construction in the	
	area, and 5) small objects lying about, probably construction	
	supplies. No security precautions are noted.	
	subpress no security bracuations are noted.	
Q. 41.	Laumeh Area "A" - "Service Tower". Determine relationship of	
	wids track versus what in 1957 coverage was called a	25 <b>X</b> 1
	service tower having top diameter of Compare shadow length	25X1
	of super structures on pad area on present coverage versus	
	previous coverage. Any indication of absence of any facility	
	(structure) which could use krack?	25X1
A.	Answer not received as of report date.	
Q. 42.	In town area of Tyura Tam - has any personnel, administration	
	or support area been enlarged since previous cover, besides	
	that work underway on previous cover? If so, please provide	
	details.	
A.	Reference page 21, JR-4-58 (FF Report), and Request #38.	
	The following expension has been made in the Support Base:	
	1. Administration and Support Area: 29 new buildings (mostly	
	large administrative apartment types) have been added.	
	14 complete, 15 are under construction.	
	2. Outside the southern and eastern side of Commo area "B":	
	16 new buildings, all completed.	
	3. Airfield: See Request #38.	
	4. Main power Plant: Area has been fenced, two large rail	
	drive in buildings and five smaller buildings have been	
	added as well as new waste disposal ponds.	
	(4) 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	5. Water treatment facilities have been expanded.	
	6. Storage and Construction Support Area is virtually unchanged.	
	7. Tyura Tan Village is unchanged.	
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- Q. 43. Please make a statement re possible Silo (Titan type) site construction in "borrow pit" area opposite new rail spur area 10 miles SW of new launch area (Reference SAG report).
- A. It is the opinion of the TT FI team that the "silo site" as referenced by SAC is nothing more than a borrow pit. The following reasons are given: 1) There is no indication of any hard construction or man-made objects on that side of the rail line; 2) construction is progressing on the other side of the rail line as evidenced by the three excavations along the water line oriented toward the rail spur served area; 3) it looks like a borrow pit or quarry; 4) no security precautions; 5) small circular ground configurations or objects visible on '59 photography were also visible on the '57 photography. No track activity of any kind is indicated on the 1957 photography.
- Q. 44. Area "B". Determine turn radii associated with hunkered "pad"

  area cutside main part of Area "B". How much cover (earth, etc.)

  over tanks in Area "B" and at bunkered "pad" area?
- A. The access road to the revetted pad outside the main gate of area "B" has three ninety degree turns. The first two turns are right angles with less than a 15 foot turning radius. The one leading into the revetted pad has a 45 to 50 foot radius.

north of the building in area "B" are so positioned that their tops are nearly at ground level or slightly below. The 1959 coverage shows that these tanks are covered and have a bunker-like appearance. The tops of the bunkers are slightly above ground level. It is estimated there is about five feet of earth cover over the tanks. Two paved roads, possibly sloping downward, provide access to the two bunkered tanks.

The 1957 coverage shows a tank emplaced in an excavation on the south side of the building. The 1959 coverage shows this tank to be covered, at ground level, and served by a concrete read. This tank has no more than one or two feet of earth cover.

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The 1957 coverage shows the storage tank and access road in the bunkered area to be under construction. The 1959 coverage shows an above ground storage tank with an access road	
completed. The diameter of this tank isits height is	25X1
undetermined. There is a object on top	25X1
of the tank that could serve as a ventilator or expansion chamber.	